SAFETY DATA SHEET



Date of issue/Date of revision 22 March 2024 Version 4

Section 1. Identification	
Product name	: HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197
Product code	: 00440104
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 28.4%
CHS lobel elemente	(oral), 52.1% (dermal), 47.9% (inhalation)

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Product name : Mixture

: HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Ingredient name	%	CAS number	
dímethyl carbonate	≥20 - ≤40	616-38-6	
cadmium sulfoselenide orange	≥10 - ≤20	12656-57-4	
xylene	≥5.0 - ≤10	1330-20-7	
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6	
Mica-group minerals	≥1.0 - ≤5.0	12001-26-2	
ethylbenzene	≥0.10 - ≤2.8	100-41-4	
cadmium sulfoselenide red	≥1.0 - ≤5.0	58339-34-7	
butan-1-ol	≤1.4	71-36-3	
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7	
toluene	<1.0	108-88-3	

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	: Causes serious eye irritation.	
Inhalation	: May cause respiratory irritation.	
Skin contact	: Causes skin irritation. Defatting to the skin.	
Ingestion : No known significant effects or critical hazards.		
Over-exposure signs/symptoms		

Section 4. First aid measures

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large
quantities have been ingested or inhaled.Specific treatments: No specific treatment.Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is
suspected that fumes are still present, the rescuer should wear an appropriate mask or
self-contained breathing apparatus. It may be dangerous to the person providing aid to
give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water
before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides Formaldehyde.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	:	Ingestion of product or cured coating may be harmful. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
dímethyl carbonate	None.
cadmium sulfoselenide orange	ACGIH TLV (United States).
	TWA: 0.002 mg/m³, (as Cd) Form: Respirable
	TWA: 0.002 mg/m³, (as Cd) Form:
	Respirable dust
	TŴA: 0.01 mg/m³, (as Cd)
	ACGIH TLV (United States, 1/2023).
	[Cadmium and compounds]
	TWA: 0.002 mg/m³, (as Cd) 8 hours. Form:
	Respirable fraction
	OSHA PEL (United States).
	TWA: 0.2 mg/m³, (as Se) Form: Total dust
	TWA: 0.2 mg/m³, (as Se)
xylene	OSHA PEL (United States, 5/2018).
	[Xylenes (o-, m-, p-isomers)]
	TWA: $435 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
Tele net containing achastifarms fibras	TWA: 20 ppm 8 hours.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2023).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m ³
Mica-group minerals	ACGIH TLV (United States, 1/2023).
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 20 mppcf 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
cadmium sulfoselenide red	ACGIH TLV (United States).
	TWA: 0.002 mg/m³, (as Cd) Form: Respirable
	TWA: 0.01 mg/m³, (as Cd)
	OSHA PEL (United States).
	TWA: 0.2 mg/m³, (as Se) Form: Total dust
	TWA: 0.2 mg/m³, (as Se)
butan-1-ol	ACGIH TLV (United States, 1/2023).
······································	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 300 mg/m ³ 8 hours.
	TWA: 300 mg/m 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2023). [Silica,
σ ystanine since, respirable power (γ to microns)	
	crystalline]
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
	United States Page: 7/18

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 8. Exposure controls/personal protection

	•
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:
	Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	OSHA PEL (United States, 5/2018). [Silica,
	crystalline]
	TWA: 50 µg/m³ 8 hours. Form: Respirable
	dust
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 1/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Key	y to abbreviations
A = Acceptable Maximum Peak	S = Potential skin absorption

А	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	 Respiratory sensitization
С	= Ceiling Limit	SS	 Skin sensitization
F	= Fume	STEL	 Short term Exposure limit values
IPEL	 Internal Permissible Exposure Limit 	TD	= Total dust
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>S</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles.
Skin protection	

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: butyl rubber, neoprene, polyvinyl alcohol (PVA), Viton®
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

Physical state: Liquid.Color: Orange.Odor: Hydrocarbon.Odor threshold: Not available.pH: Not available.Melting point: Not available.Boiling point: S37.78°C (>100°F)Flash point: Closed cup: 24°C (75.2°F)Auto-ignition temperature: Not available.Peromosition temperature: Not available.Flammability: Not available.Flammability: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42Density (lbs / gal): 11.85	<u>Appearance</u>		
Odor: Hydrocarbon.Odor threshold: Not available.pH: Not available.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 24°C (75.2°F)Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability: Not available.Flammability: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Physical state	: Liquid.	
Odor threshold pH:Not available.pH:Not available.Melting point:Not available.Boiling point:>37.78°C (>100°F)Flash point:Closed cup: 24°C (75.2°F)Auto-ignition temperature:Not available.Decomposition temperature:Not available.Flammability:Not available.Flammability:Not available.Evaporation rate:Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:1.42	Color	: Orange.	
pH:Not applicable.Melting point:Not available.Boiling point:>37.78°C (>100°F)Flash point:Closed cup: 24°C (75.2°F)Auto-ignition temperature:Not available.Decomposition temperature:Not available.Flammability:Not available.Lower and upper explosive:Not available.Evaporation rate:Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:1.42	Odor	: Hydrocarbon.	
Melting point:Not available.Boiling point:>37.78°C (>100°F)Flash point:Closed cup: 24°C (75.2°F)Auto-ignition temperature:Not available.Decomposition temperature:Not available.Flammability:Not available.Flammability:Not available.Evaporation rate:Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:1.42	Odor threshold	: Not available.	
Boiling point:>37.78°C (>100°F)Flash point:Closed cup: 24°C (75.2°F)Auto-ignition temperature:Not available.Decomposition temperature:Not available.Flammability:Not available.Flammability:Not available.Evaporation rate:Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:1.42	рН	Not applicable.	
Flash point: Closed cup: 24°C (75.2°F)Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability: Not available.Lower and upper explosive (flammable) limits: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Melting point	: Not available.	
Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability: Not available.Lower and upper explosive (flammable) limits: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Boiling point	: >37.78°C (>100°F)	
Decomposition temperature: Not available.Flammability: Not available.Lower and upper explosive (flammable) limits: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Flash point	: Closed cup: 24°C (75.2°F)	
Flammability: Not available.Lower and upper explosive (flammable) limits: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Auto-ignition temperature	: Not available.	
Lower and upper explosive (flammable) limits: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Decomposition temperature	: Not available.	
(flammable) limitsEvaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42	Flammability	: Not available.	
Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.42		: Not available.	
Vapor density: Not available.Relative density: 1.42	Evaporation rate	: Not available.	
Relative density : 1.42	Vapor pressure	: Not available.	
	Vapor density	Not available.	
Density (lbs / gal) : 11.85	Relative density	: 1.42	
	Density (lbs / gal)	: 11.85	

Section 9. Physical and chemical properties

	Media	Result	
Solubility(ies)	cold water	Not soluble	
Partition coefficient: n- octanol/water	: Not applicable.		
Viscosity	: Kinematic (40°C (104°F	F)): >21 mm²/s (>21 cSt)	
Volatility	: 60% (v/v), 42.178% (w/w)		
% Solid. (w/w)	: 57.822		

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dimethyl carbonate	LC50 Inhalation Vapor	Rat	140000 mg/m ³	4 hours
-	LD50 Dermal	Rabbit	2.5 g/kg	-
	LD50 Oral	Rat	12.9 g/kg	-
cadmium sulfoselenide	LD50 Oral	Rat	>5000 mg/kg	-
orange				
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
			United States	Page: 10/18

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation
x ylene	Skin - Mod	lerate irritar	t Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				·		
Skin	: There are	e no data av	ailable on the mixtu	ire itself.		
Eyes	: There are	e no data av	ailable on the mixtu	ire itself.		
Respiratory	: There are	e no data av	ailable on the mixtu	ire itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data av	ailable on the mixtu	ire itself.		
Respiratory	: There are	e no data av	ailable on the mixtu	ire itself.		
Mutagenicity						
Conclusion/Summary						
Carcinogenicity	· · · · · · · · · · · · · · · · · · ·					
Conclusion/Summary	sion/Summary : There are no data available on the mixture itself.					
Classification	Classification					
Product/ingredient name	OSHA	IARC	NTP			
dmium sulfoselenide	-	1	Known to be a hum	an carcinoge	en.	
orange				-		
xylene	-	3	-			
ethylbenzene	-	2B	-			
cadmium sulfoselenide red	-	1	Known to be a hum	•		
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a hum	an carcinoge	en.	
toluene	-	3	-			

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
dimethyl carbonate	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
toluene	Category 2	-	-

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Target organs
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: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, cardiovascular system, upper respiratory tract, skin,

central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Inhalation Skin contact	 Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	dryness
	cracking reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
Defense dae defense die tease fie	skeletal malformations
	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of exposure and eye contact.
Short term exposure	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	<u>ects</u>
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	<u>ity</u>
Acute toxicity estimates	

Date of issue 22 March 2024 Ve

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
IFI-TEMP 500 INTERNATIONAL ORANGE F/S 12197	17616.0	2723.4	N/A	55.6	7.1
dimethyl carbonate	12900	2500	N/A	140	N/A
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
butan-1-ol	790	3400	N/A	24	N/A
toluene	5580	8390	N/A	49	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
dímethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene ethylbenzene toluene	- - -		- -		Readily Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dimethyl carbonate	0.354	-	Low
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
butan-1-ol	1	-	Low
toluene	2.73	8.32	Low

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

United States Page: 14/18

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш	III	Ш
Environmental hazards	Yes.	No.	No.
Marine pollutant substances	Cadmium sulfoselenide orange)	Not applicable.	Not applicable.
Product RQ (lbs)	1101.7	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

Additional information

DOT	: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: None identified.
ΙΑΤΑ	: 📝 he environmentally hazardous substance mark may appear if required by other transportation

Special precautions for user : Transport within user's premises: always transport within

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Date of issue 22 March 2024 Ve

One time notification

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : At least one component is inactive.

United States - TSCA 12(b) - Chemical export notification:

cadmium sulfoselenide orange

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
dimethyl carbonate	≥20 - ≤40	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
cadmium sulfoselenide orange	≥10 - ≤20 ≥5.0 - ≤10	CARCINOGENICITY - Category 1A FLAMMABLE LIQUIDS - Category 3
xylene	25.0 - 210	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1
Talc , not containing asbestiform fibres	≥5.0 - ≤10	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
ethylbenzene	≥0.10 - ≤2.8	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1

United States Page: 16/18

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 15. Regulatory information

		HNOC - Defatting irritant
cadmium sulfoselenide red	≥1.0 - ≤5.0	CARCINOGENICITY - Category 1A
butan-1-ol	≤1.4	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
powder (<10 microns)	\$1.0	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
powder (<10 microns)		EXPOSURE) - Category 1
toluene	<1.0	FLAMMABLE LIQUIDS - Category 2
loidene	<1.0	SKIN IRRITATION - Category 2
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

<u>SARA 313</u>

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: 🖻 🗖 Eadmium sulfoselenide orange	12656-57-4	10 - 30
	xylene	1330-20-7	5 - 10
	ethylbenzene	100-41-4	1 - 5
	cadmium sulfoselenide red	58339-34-7	1 - 5
	butan-1-ol	71-36-3	0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 1 (*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

United States Page: 17/18

Version 4

Product name HI-TEMP 500 INTERNATIONAL ORANGE F/S 12197

Section 16. Other information

Health : 3 Flamma	ability : 3 Instability : 1
Date of previous issue	: 3/12/2022
Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.